ABSTRACT

Improved color image display accuracy can be achieved across a computer network by obtaining information characterizing the color response of display devices associated with a client residing on the computer network, and using the information to modify color images delivered to the client. To determine gamma and gray balance, a set of gray elements is displayed against a dithered gray background representing a gray level of approximately 25 to 40% and, more preferably, approximately 33%. In some embodiments, the gray elements and the dithered gray background may be limited to the green color channel of the display device. Dithered backgrounds in the range approaching approximately 33% more closely match the actual midpoint of black to gray transition for most display devices. The gamma and gray balance information can be obtained, for example, by guiding the client through a color profiling process that profiles the color response of the display device. For example, such guidance may take the form of a series of instructional web pages that are delivered to the client. The web pages can be made interactive to enable collection of color characterization data from the client.